

5/1959

813492 COMPLETE SPECIFICATION  
 1 SHEET This drawing is a reproduction of  
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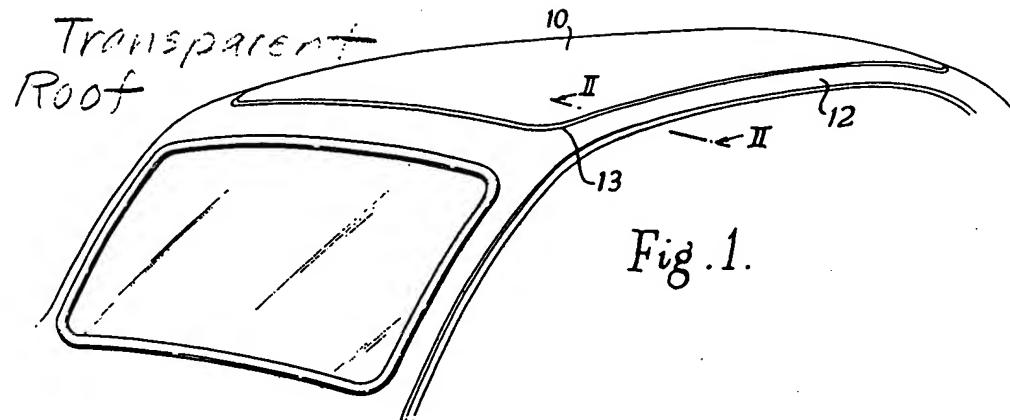


Fig. 1.

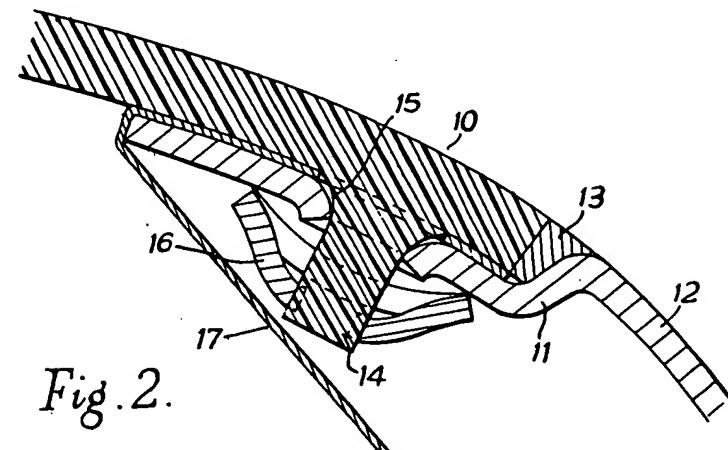
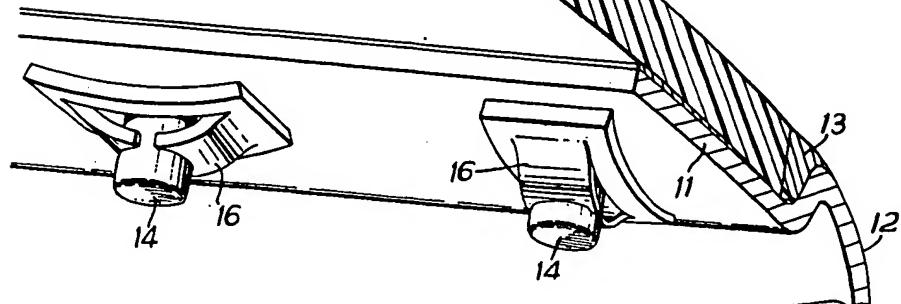


Fig. 2.



Fig. 3.



# PATENT SPECIFICATION

Inventor: ALAN CHARLES HILL

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## COMPLETE SPECIFICATION

### Improvements in or relating to Vehicle Bodies

We, PRESSED STEEL COMPANY LIMITED, a British Company, of Cowley, in the City and County of Oxford, do hereby declare the invention, for which we pray that a patent 5 may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to vehicle bodies and 10 concerns a body of the closed or saloon type. It has already been proposed, for the purpose of providing greater visibility, to form the whole or part of a vehicle roof of a transparent material such as, for example, methyl 15 methacrylate, and an object of the present invention is to provide an improved vehicle body having a transparent or translucent roof panel extending over the whole or part of the area of the roof.

20 One of the difficulties in providing such a panel, is that of making the joint between its edges and the edges of the body panels, which normally are of sheet metal, completely weather-proof.

25 The invention enables a weather-proof joint to be provided between a transparent or translucent roof panel and the adjacent sheet metal panels of a vehicle body, and the joint may be so made that there are no ridges or other protrusions on the exterior of the body.

30 According to the present invention there is provided a vehicle body comprising a moulded transparent or translucent plastic roof panel having integrally formed studs projecting from 35 its interior surface around its periphery, the studs passing through apertures in marginal ledges of the body supporting the panel and being locked with clamping means applied to the studs. The gap between the edge of the

40 plastic panel and the body may be filled with a sealing compound. Preferably the external contours of the plastic panel and the steel body are so formed that with a sealing compound filling the abovementioned gap the exterior of the roof of the vehicle presents a smooth continuous surface.

The invention will now be described by way of example with reference to the accompanying drawings, in which:—

Fig. 1 is a perspective view of part of a vehicle body according to the invention;

Fig. 2 is a section to a larger scale taken along the line II—II in Fig. 1; and

Fig. 3 is a perspective view to the same 55 larger scale of the underside of a section of the edge of the panel.

The transparent or translucent roof panel 10 is mounted on marginal ledges 11, shown 60 in Figures 2 and 3, of a steel motor car body 12. The contours of the panel and body lie in one continuous smooth surface and the gap between the body and the edges of this panel is filled with a resilient sealing compound 13 so that the roof of the car is one smooth 65 surface.

A plurality of studs 14 formed integral with the panel 14 around its periphery extend 70 inwardly through apertures 15 in the ledges 11. The studs 14 are locked with the aid of spring steel press-on clips 16 of known kind and the studs and clips are hidden behind roof-lining material 17 in the manner shown in Figure 2.

The panel 10 may be moulded in reinforced 75 fibreglass with the reinforcing filler extending into the integral studs 14.

As shown in Figure 1 the transparent or translucent panel may extend over the whole roof with only the ledges 11 of the body 12 extending into the roof area. Alternatively a smaller panel may be used, part of the roof being constituted by part of the steel body.

### WHAT WE CLAIM IS:—

1. A vehicle body comprising a moulded transparent or translucent plastic roof panel having integrally formed studs projecting from its interior surface around its periphery, the studs passing through apertures in marginal ledges of the body supporting the panel and being locked with clamping means applied to the studs.

2. A vehicle body according to Claim 1,

wherein the gap between the edges of the roof panel and the adjacent portions of the body is filled with a sealing compound.

- 5 3. A vehicle body according to Claim 1 or 2, wherein the roof panel is of reinforced fibreglass.

4. A vehicle body substantially as described

with reference to the accompanying drawings.

5. A vehicle having a body according to any of the preceding claims.

T. M. CONNELLY,  
Chartered Patent Agent,  
Agent for the Applicants.

#### PROVISIONAL SPECIFICATION

#### Improvements in or relating to Vehicle Bodies

We, PRESSED STEEL COMPANY LIMITED, a British Company, of Cowley, in the City and County of Oxford, do hereby declare this invention to be described in the following statement:—

15 This invention relates to the construction of vehicle bodies and concerns particularly a body of the closed or saloon type. It has already been proposed, for the purpose of 20 providing greater visibility, to form the whole or part of the roof of a transparent material such, for example, as perspex, and the object of the present invention is to provide a vehicle body having a transparent or translucent panel 25 extending over the whole or part of the area of the roof.

30 One of the difficulties in providing such a panel, is that of making the joint between its edges and the edges of the body panels which normally are of sheet metal, completely weather-proof.

35 By means of the invention a completely weather-proof joint is provided between a transparent or translucent roof panel and the adjacent sheet metal panels of the body, and particularly the joint is so made as to be

undetectable from the exterior of the body.

This is achieved according to the invention by moulding the roof panel in one piece and in the moulding forming on the interior surface thereof a plurality of integral studs extending around the periphery of the roof panel, such studs being arranged to engage in similarly spaced apertures formed around the margins of the body panels adjacent the roof panel, the studs being held in said apertures by any suitable clamping means. The gap between the roof and body panels may be filled with a suitable sealing compound.

4 4. The roof panel may be moulded in one piece of reinforced fibreglass, care being taken to ensure that the reinforcing filler extends into the integral marginal studs.

5 5. The body panels may be so formed as to provide a sheet metal margin surrounding the roof panel of a width sufficient only to permit the stud receiving apertures to be formed therein.

T. M. CONNELLY,  
Chartered Patent Agent,  
Agent for the Applicants.

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